

5           a spiral inductor coupled between said inner conductor and a ground  
6 connection, said spiral inductor operating at a predefined RF impedance to propagate said  
7 signals along said inner conductor during normal operations and to dissipate electrical energy  
8 to said ground connection during a surge condition.

1           23. (Amended) [The surge suppressor of claim 1, further comprising]

2           A surge suppressor comprising:

3           an inner conductor for conducting signals;

4           a spiral inductor coupled between said inner conductor and a ground

5 connection, said spiral inductor operating at a predefined RF impedance to propagate said

6 signals along said inner conductor during normal operations and to dissipate electrical energy

7 to said ground connection during a surge condition; and

8           a surge blocking device coupled to said inner conductor and said spiral inductor  
9 for attenuating said electrical energy therethrough.

1           64. (Amended) [The surge suppressor of claim 1, further comprising]

2           A surge suppressor comprising:

3           an inner conductor for conducting signals;

4           a spiral inductor coupled between said inner conductor and a ground

5 connection, said spiral inductor operating at a predefined RF impedance to propagate said

6 signals along said inner conductor during normal operations and to dissipate electrical energy

7 to said ground connection during a surge condition; and

8           a surge blocking means coupled to said inner conductor and said spiral inductor  
9 for blocking said electrical energy therethrough.

1           5. (As Filed) The surge suppressor of claim 3 wherein said inner  
2 conductor and said surge blocking device are disposed within a cavity of a housing, said inner  
3 conductor and said cavity forming a coaxial line.

1           6. (As Filed) The surge suppressor of claim 3 wherein said surge blocking  
2 device comprises first and second plates and first and second transitions collectively forming a  
3 structure having a predefined impedance.

1                   7.     (As Filed) The surge suppressor of claim 3 wherein said surge blocking  
2 device is selected from a group consisting of a capacitor, parallel rods, coupling devices, and  
3 conductive plates.

1                   7/8.    (Amended) [The surge suppressor of claim 1 wherein]  
2                    A surge suppressor comprising:  
3                    an inner conductor for conducting signals; and  
4                    a spiral inductor coupled between said inner conductor and a ground connection  
5                    and operates at a predefined RF impedance to propagate said signals along said inner  
6                    conductor during normal operation and to dissipate electrical energy to said ground connection  
7                    during a surge condition, said spiral inductor [has] having a shape selected from a group  
8 consisting of archemedes, logarithmic, and hyperbolic.

1                   9.     (Allowed) A surge suppressor for discharging an electrical surge to  
2 ground comprising:  
3                   a housing having a cavity, a surge port, and a protected port;  
4                   an inner conductor disposed within said cavity of said housing for transmitting  
5 and receiving radio frequency signals;  
6                   a spiral inductor disposed within said cavity of said housing, said spiral inductor  
7 having an inner spiral electrically coupled to said inner conductor and an outer spiral  
8 electrically coupled to said housing for discharging electrical energy to a ground connection;  
9 and  
10                  a capacitive device disposed within said cavity of said housing and electrically  
11 coupled to said inner conductor and said spiral inductor for attenuating said electrical energy  
12 therethrough.

1                   10.    (Allowed) The surge suppressor of claim 9, further comprising an  
2 insulating member disposed within said cavity of said housing and coupled to said inner  
3 conductor for supporting said inner conductor in said cavity to electrically isolate said inner  
4 conductor from said housing.

1                   11.     (Allowed) The surge suppressor of claim 9 wherein said capacitive  
2 device comprises first and second plates and first and second transitions collectively forming a  
3 structure having a predefined impedance.

1                   12.     (Allowed) The surge suppressor of claim 9 wherein said inner  
2 conductor and said cavity forming a coaxial line.

1                   13.     (Canceled).

1                   14.     (Canceled).

1                   15.     (Canceled).

1                   16.     (Canceled).

1                   17.     (Allowed) A communications system comprising:  
2 communications equipment coupled to an antenna for receiving and  
3 transmitting signals via an inner conductor; and  
4 a surge suppressor for blocking excessive electrical energy developed at said  
5 antenna or on said inner conductor during a surge condition, the surge suppressor comprising:  
6 a spiral inductor coupled between said inner conductor and said ground  
7 connection, wherein said spiral inductor operates at a predefined RF impedance to propagate  
8 said signals along said inner conductor during normal operation and to dissipate said electrical  
9 energy to a ground connection during said surge condition.

1                   18.     (Allowed) The communications system of claim 17 wherein said surge  
2 suppressor further comprising a capacitive device coupled to said spiral inductor for  
3 attenuating said electrical energy.

1                   19.     (Allowed) The communications system of claim 17 wherein said surge  
2 suppressor further comprising a housing having a cavity configured to dispose said spiral  
3 inductor therein.

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